PERSONAL

2015

DIGITAL ARCHIVING



The Library of Congress

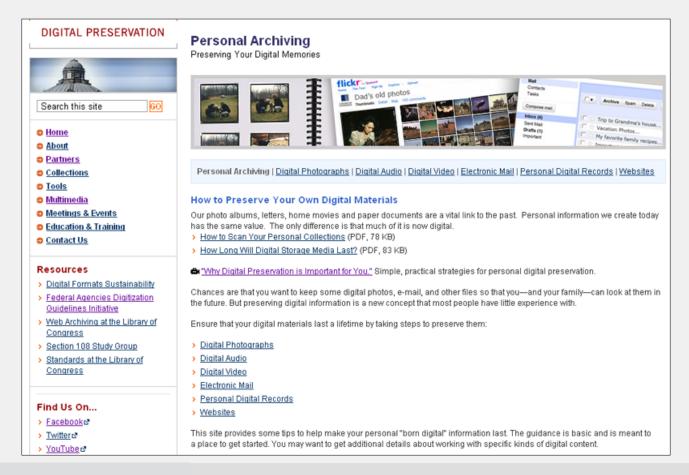
NDIIPP:

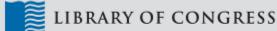
The National Information Infrastructure and Preservation Program



Personal Digital Archiving Resources

http://www.digitalpreservation.gov/personalarchiving/

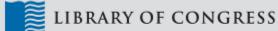




Blog

http://blogs.loc.gov/digitalpreservation/

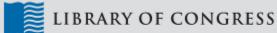




Facebook

http://www.facebook.com/digitalpreservation





Twitter

@ndiipp



National Digital Stewardship Residency

http://www.digitalpreservation.gov/ndsr/

An apprenticeship plus...

NDSR residents develop and apply their digital stewardship knowledge and skills in real-world settings.

For example: Five candidates have been selected to participate in one of five paid residencies in Washington, D.C. area institutions from June 2015 - June 2016.

Other NDSR programs around the U.S.

Howard Besser helping develop curriculum.

National Digital Stewardship Residency



NDSR Project Improving Digital Stewardship in the U. S. Senate Title

Project Summary

The Senate Historical Office seeks a National Digital Stewardship Resident to study and assess current Senate workflows in appraisal, management, ingest, description and transfer of Senate committee digital assets into the Congressional Records Instance of the National Archives'



NDSR Project Title

Digital Preservation Access and Education through the Public Library

Project Summary

Project will create a sustainable, public-focused lab, tools, and instruction for building public knowledge and skills around the complex and paralyzing problems of personal digital recordkeeping. The resident will gain practical knowledge in every area of the digital object lifecycle while developing digital preservation workstations for the DC Public Library (DCPL) Makerspace, instructions for basic best practice, and an outreach model in partnership with the Historical

Guidelines: Scaled levels of preservation, from individuals to groups to small organizations to large institutions.



Guidelines, from "the least you should do" to "the most you can do"

http://www.digitalpreservation.gov/ndsa/working_groups/documents/Levels_v1.pdf

Levels of Digital Preservation, v1

	Level 1 (Protect your data)	Level 2 (Know your data)	Level 3 (Monitor your data)	Level 4 (Repair your data)
Storage and Geographic Location	Two complete copies that are not collocated For data on heterogeneous media (optical discs, hard drives, etc.) get the content off the medium and into your storage system	At least three complete copies At least one copy in a different geographic location Document your storage system(s) and storage media and what you need to use them	Al least one copy in a geographic location with a different disaster threat Obsoleacene monitoring process for your storage system(s) and media	Al least three copies in geographic locations with different disaster threats - Have a comprehensive plan in place that will keep files and metadata on currently accessible media or systems
File Fixity and Data Integrity	- Check file fixity on ingest if it has been provided with the content - Create fixity into if it wasn't provided with the content	Check flutly on all ingests Use write-blockers when working with original media Virus-check high risk content	- Check flutly of content at fixed intervals - Maintain logs of flutly info; supply audit on demand - Ability to detect corrupt data - Virus-check all content	Check flutly of all content in response to specific events or activities -Ability to replace/repair corrupted data -Ensure no one person has write access to all copies
Information Security	Identify who has read, write, move and delete authorization to individual files Restrict who has those authorizations to individual files	- Document access restrictions for content	Maintain logs of who performed what actions on flies, including deletions and preservation actions	- Perform audit of logs
Metadata	- Inventory of content and its storage location - Ensure backup and non-collocation of inventory	Store administrative metadata Store transformative metadata and log events	- Store standard technical and descriptive metadata	- Store standard preservation metadata
File Formats	When you can give input into the creation of digital files encourage use of a limited set of known open formats and codecs	- Inventory of file formats in use	- Monifor file format obsolescence issues	- Perform format migrations, emulation and similar activities as needed



Storage and Geographic Location

Level 1	Level 2	Level 3	Level 4
Protect your data	Know your data	Monitor your data	Repair your data
Two complete copies that are not collocated For data on heterogeneous media (optical discs, hard drives, etc.) get the content off the medium and into your storage system	At least three complete copies At least one copy in a different geographic location Document your storage systems(s) and storage media and what you need to use them	At least one copy in a geographic location with a different disaster threat Obsolescence monitoring for your storage system(s) and media	At least three copies in geographic locations with different disaster threats Have a comprehensive plan in place that will keep files and metadata on currently accessible media or systems

File Fixity and Data Integrity

Level 2 Know your data	Level 3 Monitor your data	Level 4 Repair your data
Check fixity on all ingests Use write-blockers when working with	Check fixity of content at fixed intervals Maintain logs of	Check fixity of all content in response to specific events or activities
original media Virus-check high risk content	fixity info; supply audit on demand Ability to detect corrupt data Virus-check all	Ability to replace/repair corrupted data Ensure no one person has write access to all copies
	Check fixity on all ingests Use write-blockers when working with original media Virus-check high	Check fixity on all ingests Use write-blockers when working with original media Virus-check high risk content Check fixity of content at fixed intervals Maintain logs of fixity info; supply audit on demand Ability to detect corrupt data

Metadata

Level 1 Protect your data	Level 2 Know your data	Level 3 Monitor your data	Level 4 Repair your data
Inventory of content and its storage location	Store administrative metadata Store	Store standards technical and descriptive metadata	Store standard preservation metadata
Ensure backup and non-collocation of inventory	transformative metadata and log events		

File Formats	Fi	le	Formats
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Level 1	Level 2	Level 3	Level 4
Protect your data	Know your data	Monitor your data	Repair your data
When you can give input into the creation of digital files, encourage use of a limited set of known open formats and codecs	Inventory of file formats in use	Monitor file format obsolescence issues	Perform format migrations, emulation and similar activities as needed

Essentially...

1.Organize2.Backup

Backup: Artifacts help convey obsolescence

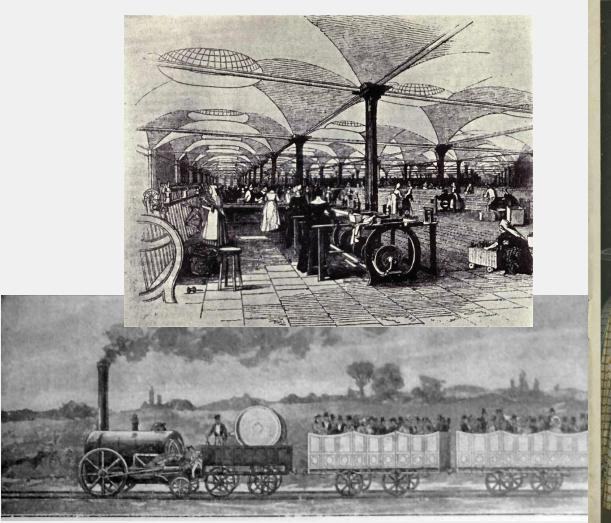


People look are looking for "how to..." help

Most-Visited Blog Posts in March (Top 10)

Blog Post Blog	Month/Year of Publication	Visits in March	Was this a top post last month?
Ring Around the Rosie: Metafolklore, Rhyme and Reason Folklife Today	Jul-14	3,875	Yes
You Say You Want a Resolution: How Much DPI/PPI is Too Much? The Signal	Jul-13	3724	Yes
Frequent Reference Question: How Many Federal Laws Are There? In Custodia Legis	Mar-13	1912	Yes
Adding Descriptions to Digital Photos The Signal	Oct-11	1559	Yes
Archiving Cell Phone Text Messages The Signal	Apr-12	1540	Yes
Ethnography, 21st Century Style Folklife Today	Mar-15	1448	No
Mark Twain's Huckleberry Finn: Controversy at the Heart of a Classic Teaching	Nov-13	1392	Yes
The Articles of Confederation: The First Constitution of the United States In Custodia Legis	Sep-11	1347	Yes
The San Patricios: the Irish Heroes of Mexico In Custodia Legis	Mar-13	1248	No
Using Wayback Machine for Research The Signal	Oct-12	1239	Yes

Still in the early days of a new cultural age





Too much manual. Should be automated

For example: Technical metadata inserted into photos, why not suggestions about facial recognition?

"Read" the photo and suggest people and place names?

"Should I tag this as Audrey on Mt. Tamalpais?"

Back it up in the cloud? ("The cloud" is still clunky.)

Spreading awareness of digital archiving

From "Huh?" to "Oh, yeah!"

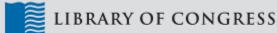
Spreading like a meme.



More Libraries Helping Community Preservation

Libraries still oriented toward digital literacy but there are independent pockets of community outreach happening around digital preservation.





Libraries: "Huh?" "Oh, yeah!"

Accreditation standards

The professional degree in librarianship continually expands with constituents' needs. Degree programs accredited by the American Library Association now offer more than 20 distinct areas of concentration beyond foundation courses, including cultural heritage, community informat-

ics, and digital archives.



Spreading awareness of...



Daily examples, worldwide

Dozens of news stories every day about online collections.

Access (off on a tangent)

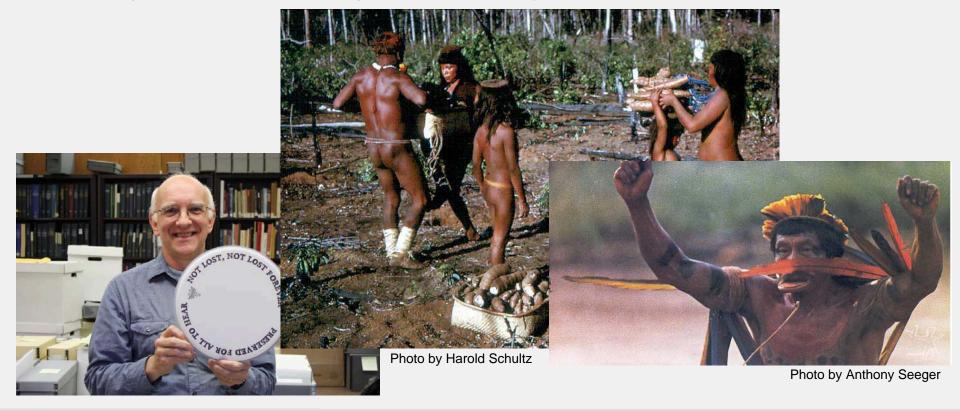
Battushig Myanganbayar from Mongolia who, at 15, took the free MIT online course Circuits and Electronics. 150,000 people from around the world took the course. He got a perfect score and MIT awarded him a scholarship.



Access (off on another tangent)

Anthony Seeger: Anthropologist, Ethnomusicologist.

"New Ideas of Music Ownership and the Musical Life of the Kisedje, a Remote Indigenous Society in Brazil"



Successful because of YOU



You

- Professional archivists and librarians
- Accidental archivists who had an epiphany "Someone needs to do something about this."
- Activist Archivists
- Witness
- The Prelinger Archives
- Community volunteers.

Because of our your digital preservation work, future generations will be able to knit together disparate threads of information in useful and meaningful ways that we cannot imagine.

http://blogs.loc.gov/digitalpreservation/

http://www.digitalpreservation.gov/personalarchiving/

http://www.facebook.com/digitalpreservation

Mike Ashenfelder mashe@loc.gov

